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NOTICE OF ALLOWANCE AND FEE(S) DUE

55694

7590

07/09/2009

DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100 WASHINGTON, DC 20005-1209

| EXAMINER | | | | | |
|-------------------|--------------|--|--|--|--|
| BRYANT, MICHAEL C | | | | | |
| ART UNIT | PAPER NUMBER | | | | |
| 2884 | | | | | |

DATE MAILED: 07/09/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/561.917 | 03/23/2007 | Nobuyuki Hirai | 46124-5445 | 1471 |

TITLE OF INVENTION: TIME-RESOLVED MEASUREMENT APPARATUS AND POSITION-SENSITIVE ELECTION MULTIPLIER TUBE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 10/09/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

| ppropriate. All further ndicated unless correcte naintenance fee notifica | ed below or directed oth | ng the Patent, advance on herwise in Block 1, by (a | rders and notification a) specifying a new co | of m | aintenance fees woondence address; | ill be and/or | mailed to the current (b) indicating a separate | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Fee(s paper | s) Transmittal. This rs. Each additional | certif paper | icate cannot be used for | domestic mailings of the or any other accompanying at or formal drawing, must |
| 55694 | 7590 07/09 | /2009 | | | | | of Mailing or Transn | nission |
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| WASHINGTON | N, DC 20005-1209 | | | | | | | (Depositor's name) |
| | | | | | | | | (Signature) |
| | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO: | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/561,917 | 03/23/2007 | | Nobuyuki Hirai | | • | | 46124-5445 | 1471 |
| | | EASUREMENT APPAR | | | | | | |
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| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | | | | | |
| BRYANT, N | MICHAEL C | 2884 | 250-2140VT | | | | | |
| . Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | registered attorney or agent) and the names of up to | | | | | | |
| PLEASE NOTE: Unl | less an assignee is identi h in 37 CFR 3.11. Comp | A TO BE PRINTED ON T ified below, no assignee eletion of this form is NO | data will appear on th | ne pa g an a | tent. If an assigne ssignment. | | | ocument has been filed for |
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| _ ~ . | tus (from status indicated as SMALL ENT1TY statu | , | ☐ b. Applicant is no | long | er claiming SMAI | LENT | ΓΙΤΥ status. See 37 CF | $(\mathbf{R}, 1, 27(\alpha)(2))$ |
| NOTE: The Issue Fee an | d Publication Fee (if requ | | d from anyone other th | | | | | e assignee or other party in |
| | | | | | Date | | | |
| Authorized Signature Typed or printed name | | | | | | | | |
| This collection of inform n application. Confiden ubmitting the completed nis form and/or suggesti sox 1450, Alexandria, V slexandria. Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this but 7 irginia 22313-1450. DC | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the i e Chief Information O COMPLETED FORM | or re s esti ndivi fficer S TO | tain a benefit by the mated to take 12 m dual case. Any con the control of the control the control of the control the control of the control of the the control of the cont | ne publ ninutes mment Fraden SENI | ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, |

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| 55694 75 | 590 07/09/2009 | | EXAM | IINER |
| DRINKER BIDDLE & REATH (DC) | | BRYANT, MICHAEL C | | |
| 1500 K STREET, | N.W. | | ART UNIT | PAPER NUMBER |
| SUITE 1100 WASHINGTON, DC 20005-1209 | | | 2884 DATE MAILED; 07/09/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 287 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 287 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|--|---|---|--------------|--|--|
| | 10/561,917 | HIRAI ET AL. | HIRAI ET AL. | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | CASEY BRYANT | 2884 | | | |
| The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is | n this application. If not included unication will be mailed in due course. | | | |
| 1. This communication is responsive to the amendment filed | <u>5/28/2009</u> . | | | | |
| 2. ☑ The allowed claim(s) is/are <u>1-12</u> . | | | | | |
| Acknowledgment is made of a claim for foreign priority ur a) | e been received. e been received in Application | on No | n the | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | e a reply complying with the requirement | nts | | |
| A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | OF | | |
| 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposition of t | son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on the header according to 37 Cl | r in the Office action of the drawings in the front (not the back) or R 1.121(d). ERIAL must be submitted. Note the | | | |
| attached Examiner's comment regarding REQUIREMENT | FOR THE DEPOSIT OF BI | OLOGICAL MATERIAL. | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Notice of Ir | formal Patent Application | | | |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview S | ummary (PTO-413), | | | |
| 3. ☐ Information Disclosure Statements (PTO/SB/08), | | /Mail Date Amendment/Comment | | | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. 🛛 Examiner's | 8. X Examiner's Statement of Reasons for Allowance | | | |
| | 9. | 9. | | | |
| | | | | | |

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DETAILED ACTION

Status of Claims

1. Applicant's reply, filed 5/29/2009, has been received and entered.

Claims 1 and 6 have been amended.

No claims have been cancelled.

New claims 11 and 12 have been added.

Thus, claims 1-12 remain currently pending in this application.

Priority

2. The Applicant's claim to foreign priority under 35 USC § 119(a)-(d) or (f), or 365(b) of Japanese Application 2003-181546 is recognized and has been placed in the file folder.

Response to Arguments

3. Applicant's arguments, see pages 2-3 of the REMARKS, filed 5/28/2009, with respect to claims 1 and 6 have been fully considered and, in view of the newly added amendments, are persuasive. The rejection of claims 1-10 have been withdrawn.

Allowable Subject Matter

- 4. Claims 1-12 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 6, the closest prior art, Kash (US 5,940,545) discloses a system comprising a signal generator, a detector, a position calculator, a time difference measuring device, and a data processor. Furthermore, Suzuki et al. (JP 7-211280), discloses a detector having a position-sensitive electron multiplier tube (EMT) comprising an entrance window, a plurality of micro-channel plates (MCP), an

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anode, and a pulse reading circuit. However, the prior art fails to disclose or suggest, in combination with the other claimed elements, a system for time-resolved measuring comprising a electron multiplier tube with a plurality of MCP, wherein the pulse reading circuit is only connected to the output face of the first micro-channel plate, located opposite the entrance window. The balance of claims are allowed based on dependence from claims 1 and 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CASEY BRYANT whose telephone number is (571)270-1282. The examiner can normally be reached on Monday - Friday, 8am - 5pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on (571)272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Constantine Hannaher/
Primary Examiner, Art Unit 2884

Casey Bryant Examiner